CHANNEL
SAFETY SYSTEMS

iCapture ™

**The complete professional CCTV kit
from Channel Safety Systems**

DIGITAL VIDEO RECORDER (DVR) USER'S MANUAL

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SAFETY INSTRUCTIONS

Please read all the safety instructions and user manual before the equipment is operated.

1.　　　Power sources

This equipment should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power, please consult your supplier.

2.　　　Objects and Liquid

Never push objects of any kind through openings of this equipment and / or spill liquid of any kind on the equipment as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock.

3.　　　Heat sources

Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers that produce heat.

4.　　　Environment

Be careful to ensure your DVR is not installed in a dusty environment or near any magnetic fields.

5.　　　Cleaning

Unplug this equipment from the wall outlet before cleaning it. Do not use liquid aerosol cleaners. Use a damp soft cloth for cleaning.

6.　　　Extreme weather conditions

Unplug this equipment during lightning storms or when unused for long periods of time.

7.　　　Transportation of equipment

Do not place this equipment on unstable trolleys, stands, or tables. When a trolley is used, use caution when moving the trolley / apparatus combination to avoid injury from tip-over. Disconnect the power before moving the equipment. And the equipment should be moved with care.

8.　　　Attachment

Never add any attachments and/or equipment without the approval of the manufacturer, as such additions may result in the risk of fire, electric shock and other personal injury.

9.　　　Correct Batteries

Risk of explosion occurs if battery is replaced by an incorrect type. Therefore you must use the same type of battery as the one being used in the product.

10.　　Ventilation.

Do not block any ventilation openings, installation of the equipment in the rack should be such that the amount of airflow required for safe operation of the equipment is not compromised.

11.　　Overloading

Do not overload wall outlets and extension cords to avoid the risk of fire or electric shock.

12.　　Reliable Earth connections (Grounding)

Reliable grounding of rack mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit.

CHAPTER 1: FEATURES

Function	Brief and Description
Real time monitoring	Double video output; with monitor, VGA virtual output port or HDMI Output; Support net-viewer and MP live surveillance and also support zoom in/out, auto sequence and PIP display.
Record	H.264 video compression format; record quality/resolution/frame rate adjustable, multiple record modes (Always, Scheduled, Manual, Alarm, Motion detection and remote record)
Record storage	Support SATA large capacity HDD and save real-time record image to HDD.
Playback	Support DVR single CH and multiple CH Search/Playback of recorded files.
Backup	Support DVR backup via USB flash drive, removable drive, Recorder and network.
Alarm Setting	Supports HDD & video input alarm management and external alarm signal inputs.
Network operation	Supports remote surveillance by authority users to increase system security.
Mouse Operation	Supports Mouse operation for faster menu navigation.
PTZ Control	Supports PTZ camera operations through RS-485.

Features:

• H. 264 video compression format; supports D1 resolution

• ADPCM audio compression format

• Windows Graphical interface; embedded real-time Linux2.6 operation system

• Friendly Menu reminder

• Multiple operation modes (Preview, record, playback, backup, network surveillance and mobile phone monitoring)

• Supports Double Encode bit network transmission

• Supports remote live surveillance via 3G mobile networks

• Supports Zoom in/out and sequence function

• The video package time is adjustable

• Multiple alarm record modes

• Rear USB2.0 ports for back-up, upgrade and mouse operation

• With IR remote control operation

• Multiple language OSD

• Support auto-maintain

CHAPTER 2: OVERVIEW

3.1 Front Panel

3.1.1 8CH CIF DVR Front Panel
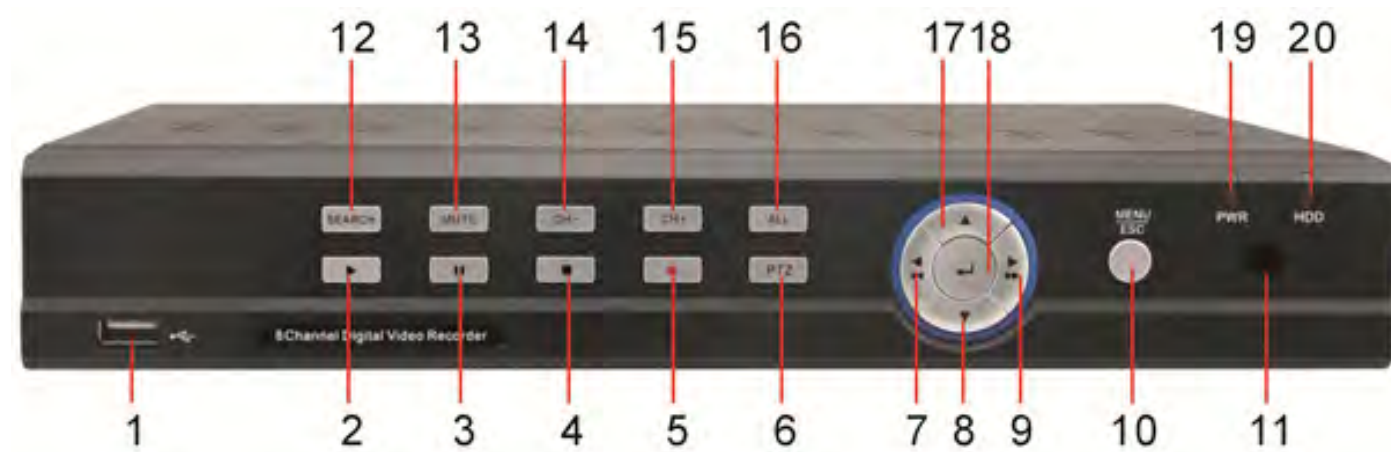
Item	Key title or Indicator	Function & Description
1	USB Port	Connect to USB2.0 port
2	PLAY	Enter into Pop-up Menu; Play record file.
3	PAUSE	Pause / play frame by frame manually
4	STOP	Stop playing or stop manual record
5	REC	Press the button to start manual record.
6	PTZ	Enter into PTZ control interface
7	REW	Move to left; Rewind function; decrease PTZ rotation speed and parameter value; On preview mode, holding pressing the button to switch GUI operation device
8	Down key	Move down
9	FWD	Right key, F. Forward key; increase PTZ rotation speed and Parameter value. Enter into Pop-up Menu; Play record file.
10	MENU/ESC	Enter into Main menu, exit or stop playing
11	IR Receiver	Receives IR signal from Remote Controller
12	SEARCH	Record search
13	MUTE	Mute on/off
14	CH-	Switch to previous channel
15	CH+	Switch to next channel
16	ALL	On live mode, clicking the button will switch to Quad display.
17	Up key	Move up
18	menu	Enter menu, select
19	Power Indicator	If the "Green" indicator is on the system is getting power normally.
20	HDD Indicator	When the "Red" indicator flashes it means the hard drive is being read or written to.

3.1.2   16CH CIF DVR Front Panel
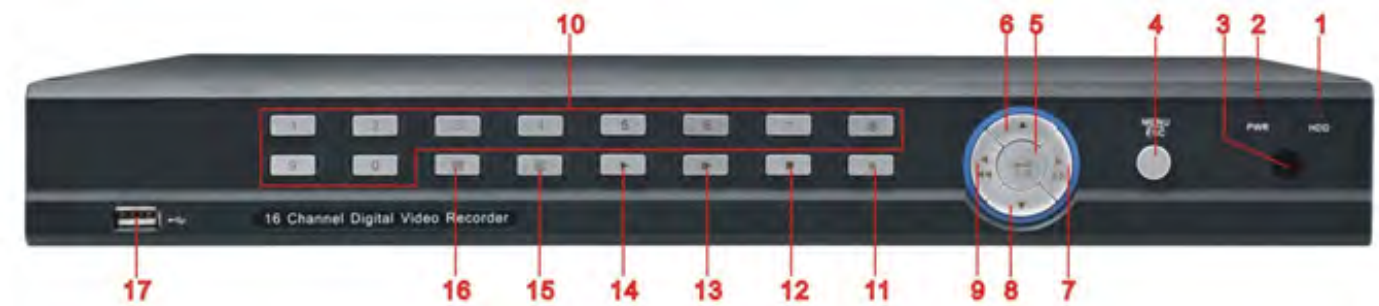
| Item	Type	Key title or Indicator	Function & Description
1	Indicator	HDD indicator	When the "Red" indicator flashes it means the hard drive is being read or written to.
2		Power indicator	If the "Green" indicator is on, the system is getting power normally
3	IR Receiver		Receives IR signal from Remote Control
4	Complex Key	Menu	Enter into main menu / Exit
5		PTZ	Enter into PTZ control, select [Enter] / [Edit] operation
6	Direction Key	UP	Move up
7		RIGHT	Move right / FWD
8		DOWN	Move down
9		LEFT	Move left / RWD
10	Channel Select & numeric input	Single Channel and numeric key	1. Number 1~9 stand for numeric 1~9 and CH 1~9. 2. CH11-CH16 select method: press firstly numeric key 1 and then other numeric key. For example CH16 select firstly press 1, and then press 6. 3. Holding press key 0 for three seconds may convert current output device
11	Rec.	Manual record	Press the button to start manual record
12	Play Control	Stop	Stop playing and stop manual record
13		By frame	Play frame by frame
14		Play	Convert to play status
15		Mute	Open or close audio input
16		Multi Display	Live display Quad mode, 9-split and 16-split mode
17	USB Port	USB Port	Connect to USB2.0 port

3.2   Rear Panel

3.2.1   8CH CIF DVR Rear Panel
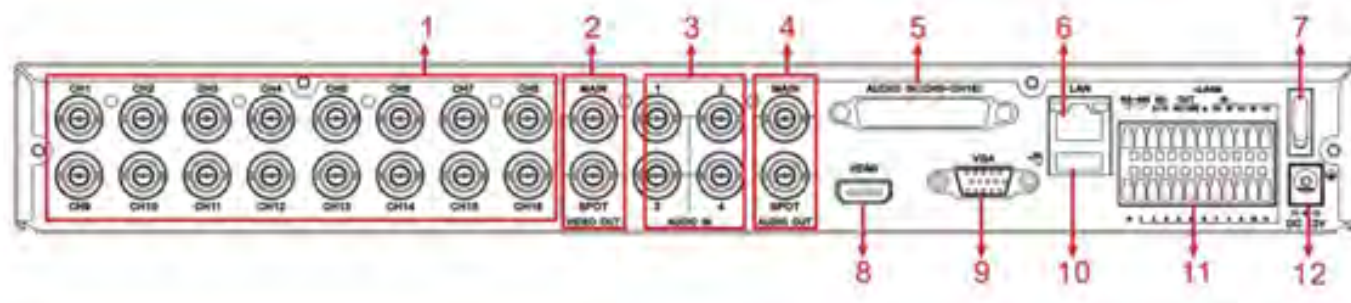
Item	Physical port	Function & Description
1	Video input	Connect CH1-16 (Virtual) video input BNC interface
2	Video output	(UP) Main video output; (Down) Spot output (BNC interface)
3	Audio input	Connect CH1-4 audio signal input (BNC interface)
4	Audio output	Connect audio signal output, including spot main audio output and sequence audio output (BNC interface)
5	Audio input	Connect (CH5~CH16) Audio input
6	Ethernet: Port	Connect LAN, Ethernet (RJ45 interface)
7	Power Switch	Turn Power on and off
8	HDMI	HDMI Output
9	VGA Port	Connect to VGA monitor, such as PC monitor
10	USB Port	Connect USB mouse
11	RS-485/Sensor/Alarm	RS485/Sensor/Alarm interface (see pin outs below)
12	Power Port	Connect power supply - DC12V 4A

3.2.2   16CH CIF DVR Rear Panel
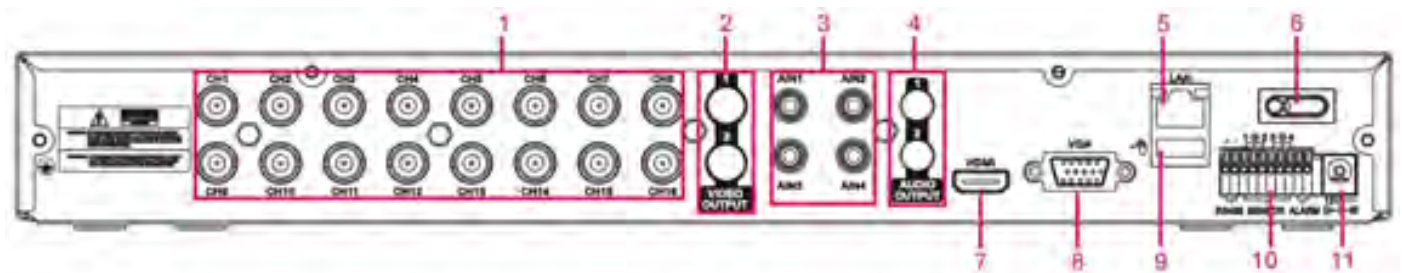
Item	Physical port	Function & Description
1	Video input	Connect CH1-16 (Virtual) video input BNC interface
2	Video output	Connect monitor output(BNC interface)
3	Audio input	Connect CH1-4 audio signal input (BNC interface)
4	Audio output	2CH output; BNC (interface
5	Ethernet: Port	Connect LAN, Ethernet (RJ45 interface)
6	Power Switch	Turn Power on and off
7	HDMI	HDMI Output
8	VGA Port	Connect to VGA monitor, such as PC monitor
9	USB Port	Connect USB mouse
10	RS-485/Sensor/Alarm	RS485/Sensor/Alarm interface (see pin outs below)
11	Power Port	Connect power supply - DC12V 5A

RS485/Sensor/Alarm port functions:
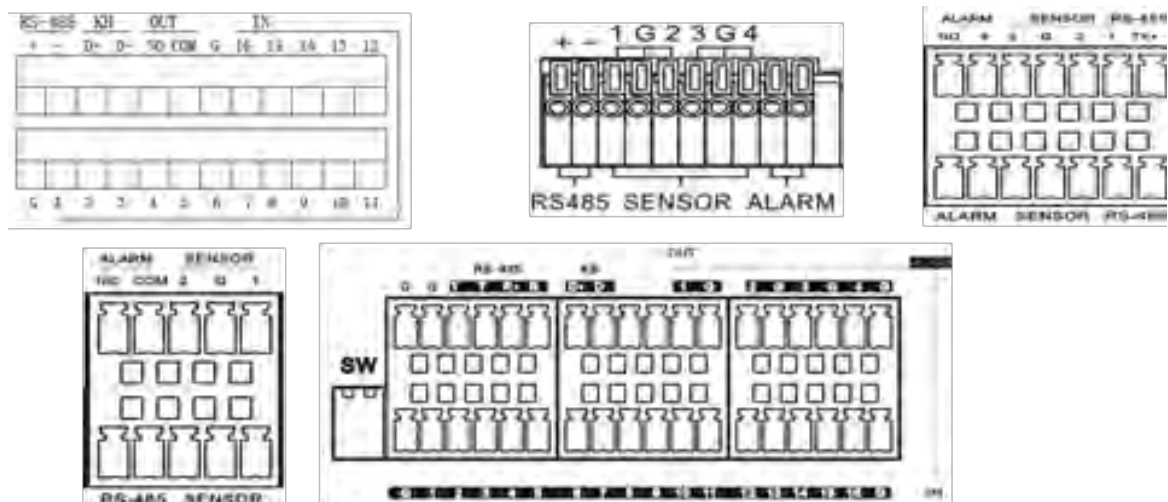
Alarm input: Connect [-] port of your sensor to G (GND) pin, and [+] port to channel input according to the alarm device you purchased. Alarm output: Connect to the two ports marked with "out" PTZ Port-Connect your camera to RS-485A and RS485B accordingly.

3.3　8-CH Remote Controller

Item	Key function
1	Channel select 1-8; Numeric key
2	Numeric key; Clicking numeric "0" allow you switch to GUI (Graphical user Interface) function
3	Multiple display mode
4	Enter into Main menu/Exit
5	Up arrow key, Volume adjust
6	Down arrow key, Volume adjust
7	Left/Down key,
8	Select key/Edit key; Confirm the selected operation.
9	Rewind key
10	Enter into record search menu; Play key
11	Forward key
12	Record key
13	Pause/Sequence key
14	Stop manual record; stop playing
15	Testing
16	Mute on/off

3.4　16-CH Remote Controller

Key Title	Key Function
REC	Press the button to enter into manual record.
SEARCH	Press the button to enter into record search menu
2×2	Enter into Quad display
3×3	Enter into 9-split display
4×4	Enter into 16-split display
AUTO	Enter into dwell time display
0~9	Channel select; numeric key
DISPLAY MODE	Multiple CH display (Quad, 9-split, 16-split and full screen display
▲	Up direction key
▼	Down direction key
◄/►	Left/right direction key; also decrease/increase parameter value of control bar.
ENTER	Select [Enter] / [Edit] operation
Menu/ESC	Enter into/exit Main menu
PIP	PIP display mode
MUTE	Mute key
FWD	Forward x2 x4 x8
REW	Rewind x2 x4 x8
PLAY	Enter into record search, play record event
STOP	Stop play / manual play
PAUSE/ FRAME	Pause / play frame by frame
SLOW	1/2 1/4 1/8 Slow play
Z+	Zoom out video area
Z-	Zoom in video area
F+	Extend focus
F-	Extend focus
I+	Increase PTZ brightness
I-	Decrease PTZ brightness
PTZ	Allow you set preset bit and control PTZ.
LOCK	Lock system

3.5   Mouse Operation

Alongside using the buttons of the front panel of your DVR or remote controller, you can also use the mouse to perform system operations.

Type	Function
Click left key of Mouse	In menu lock mode, Enter into pop-up menu and clicking any sub menu to pop up Log-in window; on menu unlock mode, enter into pop-up menu, and then clicking left key to enter into any sub menu directly.
	After entering into main menu, clicking left key could enter into any sub menu; On [Detailed file] menu mode, clicking left key could playback one recording file.
	Change the status of check box and motion detection area.
	Clicking combo box to access pull-down menu; Click left key to stop dwell time display when dwell time display is activated.
	By clicking left key you can adjust Color control bar and volume control bar.
	Clicking combo box to access pull-down menu
	By clicking left key you can select values in edit boxes or pull-down menu and supports Chinese word input, special symbol, numeric and character input, use instead of [Enter-] or [Backspace -]
Click right key of Mouse	In live display mode, clicking right key will display pop-up menu (shown as Picture 5-1).
	In Main menu or sub menu mode, clicking right key will exit current menu.
Double-click Left key of Mouse	In live display or playback mode, double-clicking left key will maximize the screen.
Moving Mouse	Select menu item
Sliding Mouse	On motion mode, sliding mouse will select motion area; On [Color set] menu mode, sliding mouse will adjust color control bar and volume control bar.

CHAPTER 3: DVR INSTALLATION

4.1   HDD Installation (Applicable to the model with HDD drawer)

Caution: Please do not install or take out hard drive when CVR is running!

(1) The model has a HDD drawer. Please use provide key to take out the HDD drawer and put HDD into the drawer correctly.

(2) Cut power first, and then remove screws and open DVR upper cover carefully;

(3) Insert Power Cord and data cable into Pin of hard drive securely;

(4) Remove the screws on the HDD bracket; fix the HDD to the bracket and then fix the bracket with HDD to DVR body

(5) Put the upper cover back carefully, re-attach screws.

Note: If user requires higher performance HDD, We strongly recommend you use a special hard drive for security and protection

4.2 Camera and Monitor Connection

Connect camera cable to video input of DVR, and from video output of DVR to Monitor via BNC connector (Refer to section 3.2 - Rear Panel); or

If the camera is a PTZ speed dome, you could connect RS485 A & B to the according port of DVR respectively (refer to system figuration on Chapter 8).

4.3 Power Supply Connection

Please only use the power adapter supplied with the DVR.

After the power is on please make sure the video I/O is connected well to the audio device with RCA cable.

CHAPTER 4: DVR BOOT UP

5.1   System Initialization

Picture 5-1

After connecting the DVR to the Power outlet and pressing the Power button on the front panel, you will enter into the system initializing screen shown in Picture 5-1

5.2   Live Interface

Picture 5-2

After finishing initialization the system will enter into <Live> screen. Picture 5-2 shows the 16-split display defaulted by system, which shows no video input status. Once there are video inputs, the screen will display live images from the cameras. In Live mode, if you use the mouse to double-click the live image of any channel, the image will be maximized to full screen, by double-clicking again, image will come back to the 16-split display mode; clicking the right button of the mouse will enter into a Pop-up Menu; clicking the left button of the mouse allows you select menu items; and

clicking any area outside the menu allows you exit the Pop-up menu.

Note: When internal HDD is not connected or an error occurs, the character "H" will appear on the first channel of the live screen and accompany buzzer alarm. If you want to close the buzzer alarm, please enter into [Main menu Alarm] to set HDD loss, HDD space not enough and alarm output to "off"

## CHAPTER 5: DVR MENU

6.1   Pop-up Menu

Picture 6-1

After finishing system initialization, right click your mouse on the main interface mode to enter into the Pop-up Menu. Now you can complete the perform parameter setting and operate on Main Menu, Multi-Pics, PTZ, PIP, Rec. Search, Mute, Manual record, Start Rolling, Start Cruise and Vo Switch etc.

By clicking [0] key on the remote controller or holding press [Esc] key on the front panel of the DVR could switch the system to the other output device.

## 6.2   Main Menu Guide
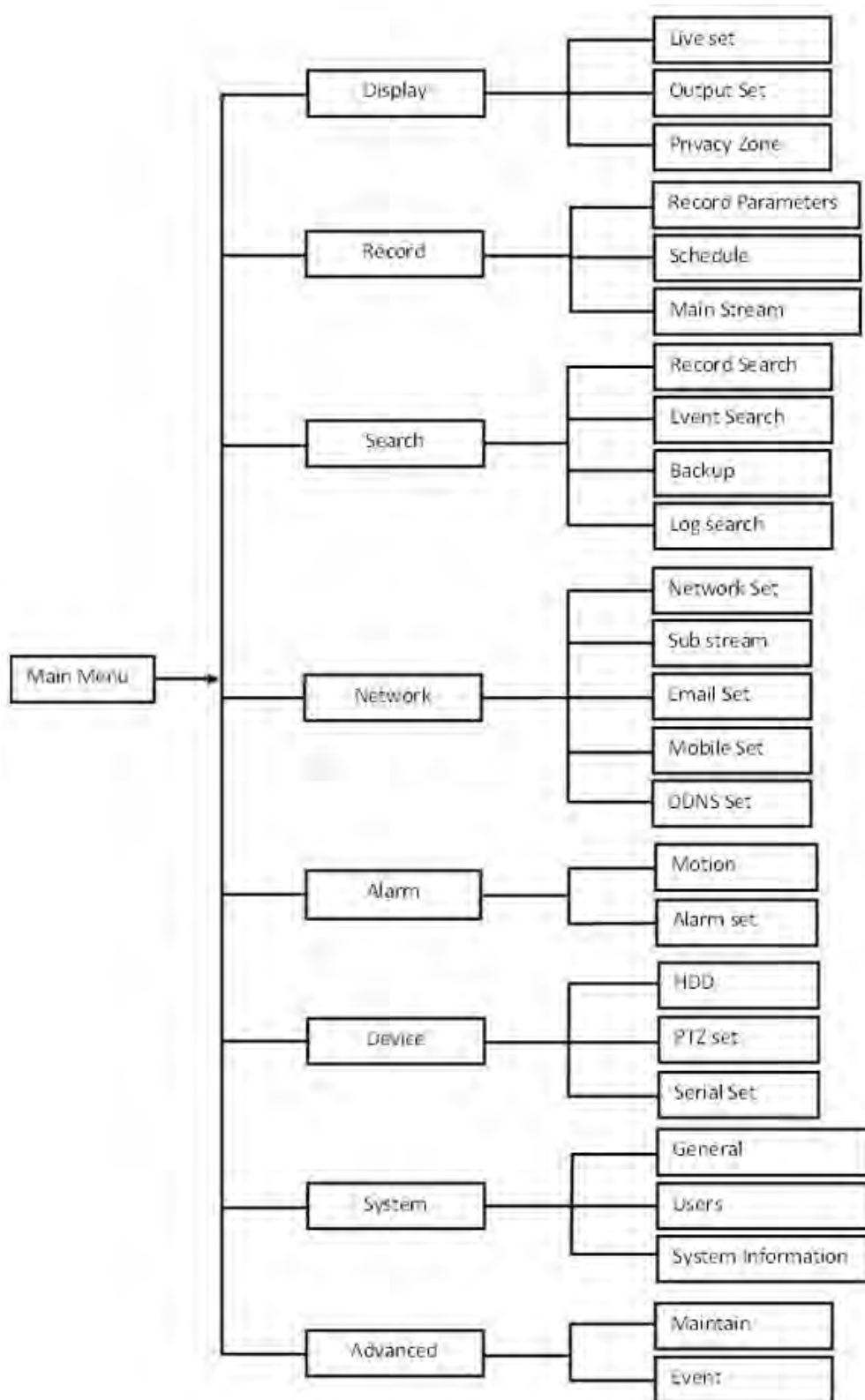
6.3   Main Menu

Picture 6-2

On <Live> mode, click [Menu] button on the front panel or Remote controller to enter into Main menu interface shown as Picture 6-2. And also you can click [🔧] icon to enter the main menu screen. In Main Menu mode, you can control device management settings, such as Display, Record, Network, Search, Device

6.3.1   Display

Go to <Main menu - Display - Live> option and enter into the <Display> setting interface shown as Picture 6-3.

Picture 6-3
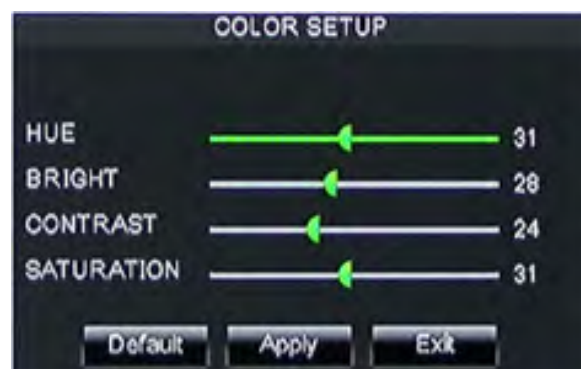
Picture 6-4

Channel: allows you to setup the channel you desire.

Name: allows you to setup the channel name, and system support up to eight characters.

Position: allows you to setup the display position of each channel.

Colour: Click [Setup] option to enter into the [Color setup] interface shown as Picture 6-4.

Covert: allows you to enable [Live] surveillance screen.

Show time: allows you to set the system time which appears in the <Live> screen.

Record time: When set to "Enable", you can record the system time into the record history.

Copy: allows you to copy all data from one channel to another.

Picture 6-4 shows the Colour Menu where you can adjust image brightness, saturation, contrast and hue parameters of each channel.

Explanation

1. The modifications will be available after clicking [APPLY] button on the bottom of the sub-menu windows and being prompted to save and then clicking [ok] button.

2. If you want to cancel the modification, click [Exit] button to exit the menu.

3. When clicking [DEFAULT] button, all system default values will be reset to default value.

4. System default value indicates the value pre-set at the factory.

6.3.2   Output Mode

Go to [Main menu-Display-Output] to enter into the output set interface as shown in Picture 6-5.

Picture 6-5

Click [Spot output] option and set relative parameters shown as Picture 6-7.

Picture 6-7

Picture 6-9

Click [Live] to pop up the interface shown as in Picture 6-6. Now you can perform the channel sequence setting.

Picture 6-6

Click [Spot sequence] to enter into the interface shown as Picture 6-8.

Picture 6-8

Video output: Support CVBS output Live and Spot mode simultaneously. (Live is the main output, and Spot is the auxiliary output.)

CH Sequence: the option is defaulted to "Off" and the sequence time is 5 seconds. Users can activate as desired.

Rotate time: allows you to set the sequence time. Minimum time can be set to 3 seconds.

VGA/HDMI Resolution: allows you to select VGA or HDMI output, including 800x600, 1024x768, 1280x1024, 1440x900 and HDMI.

Display Mode:

Live output: display window will include Single, Quad, 9-split and 16-split mode; Spot output: display window will include Single, Quad and 9-split mode.

Transparency: allows you to adjust the menu's transparency, and its range is 1~128.

Margin: allows you to adjust the whole screen's margin. For Details or operation please refer to Picture 6-10. (On following page)

Volume: allow you adjust the DVR volume shown as Picture 6-11. (On following page)
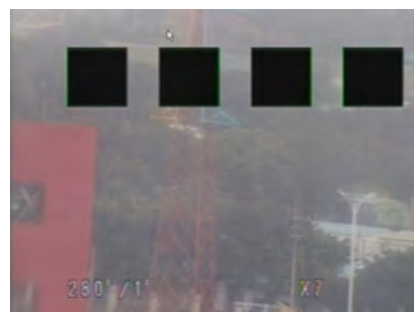
Picture 6-10

Picture 6-11

6.3.3 Privacy Zone

This function allows you to setup the privacy zone parameters according to Picture 6-12. Each channel can be set up to four privacy zones. Please follow the steps below to setup:

1. Select the area no (Area 1 ~ Area 4);
2. Click [Setup] to adjust the position of the mask area;
3. After finishing adjusting the position, right click your mouse to return back to[Privacy zone] interface;
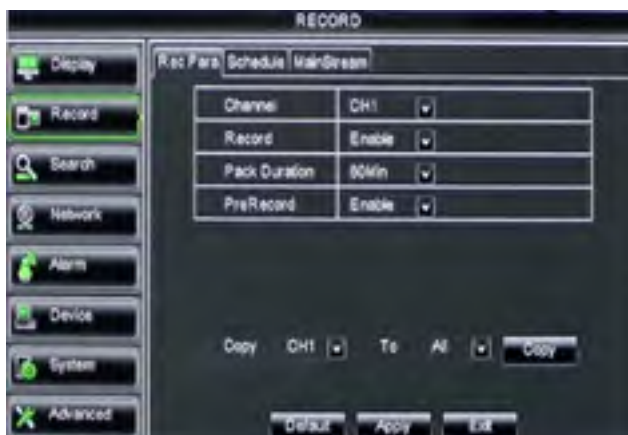4. Click [Apply] to save the above setting.

Picture 6-12

Picture 6-13

This figure is only for D9016 / CIF model reference

6.3.4   Record set: Record Parameters

Go to [Main menu-Record-Record Para] to enter into the interface shown as Picture 6-14.

Picture 6-14

Channel: allows you to setup the channel you desire.

Record: allows you to setup the record status (Enable/Disable) of each channel

Pack Duration: indicates maximum continuous record time (15, 30, 45 and 60 min).

Pre-record: Motion detection and I/O triggered record support Pre-record function.

6.3.5   Schedule

Click [Main Menu-Record-Schedule] to enter into the interface shown as Picture 6-15.

Picture 6-15

[Channel] option allows you to select the channel you desire.

To setup weekly schedules, tick-select the box of the record status you want (Alarm, General, or No Record) and then click on each box in the schedule time line that you want this method applied to. You can use the [Copy – To] pull-down menus and Copy button to copy settings from one day to another day or all days.

After you complete the schedule you can activate it by clicking the [Apply] button.

You can also click on the Default button to use the system de-faults.

Explanation: Under the <record> menu and <search> menu,

- The original color stands for no record
- "Red" stands for alarm record
- "Yellow" stands for Motion record
- "Green" stands for normal record

6.3.6   Main Stream

Go to [Main menu-Record-Main Stream] to enter into the interface shown as Picture 6-16.

Picture 6-16

Resolution: support D1, HD1 and CIF.

Frame rate: PAL: 1-25 f/s ; NTSC: 1-30 f/s.

Bit rate: uses can select the relative value by the drop down menu.

Audio: When tick-selecting the option, system will record video stream with audio simultaneously

6.3.7   Search: Record Search

Click [Main Menu-Search-Record Search] to enter into the interface shown as Picture 6-17.

Picture 6-17

Channel: allows you to select the channel(s) you desire to search.

Date Search: In the Video Search screen, users can search for records in a specific date. To execute a video search, highlight and select the numeric date field, then click a detailed time frame of the specific date. The system will start the playback from the first record of this time frame.

Time Search: In the <Search screen>, user can search for a specific date and time for a recording and view it in Playback mode. This is useful if you are hunting for a specific recording of an incident, if you know the date and time that it occurred.

File List: click [File List] button to enter into the [Event Search] screen shown as Picture 6-19, the video records for the time frame will appear in the screen.

Playback Mode: You can use the Playback Control bar to operate the Fast Forward (X2, X4 and X8), Slow play (1/2, 1/4 and 1/8 speed), Play, Pause/Frame, Rewind(X2, X4 and X8). When ending playback, the DVR will return back to previous menu shown as Picture 6-20.

Play control Bar: the play control bar will display the current playing processing as shown in Picture 6-20. (On Following Page) If the user clicks any time at the control bar and no recording exists, the system will automatically return to the previous menu.

6.3.8   Channel Select

Click [Main Menu-Search-Record search] to enter into the interface shown below in Picture 6-18

Then tick-select the channel you want to playback; and click [Play] button to enter into the playback mode shown in Picture 6-19

Picture 6-18

Picture 6-19

6.3.9   Event Search

Click [Main Menu-Search-Event Search] to enter into the interface shown in Picture 6-20.
You can highlight and double-click the desired record for playback. You can also can filter the records you want to view based on date, time, channel and record mode search.

(First Page): Goes to the first page on the list. When you view other pages, clicking [First] button brings you back to Page one.

(**Previous page):** Goes to the previous pages of current page.

(Next page): Goes to the next pages of the current page.

(Last page): Goes to the last page.
ALL (Select All): Allows you to select all the events on the current page.
Inverse (Select Invert): Allows you to select other events on the current page except those you have currently selected.

6.3.10 File Backup

You can backup the recorded files based on event or time.

6.3.11 File Backup: File Based On Event

In the [File List] mode, if you wish to backup records, tick-select the BAK check-boxes which correspond to the records you want and click the[Backup] button to enter into the menu illustrated in Picture 6-20

Select USB as backup device and click [Apply] button as shown in Picture 6-21.

Select DVD as backup device and click [Apply] button, and then you enter into the menu shown as Picture 6-21.
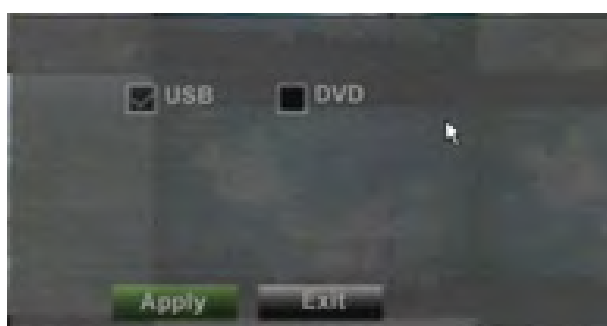
Picture 6-21

Picture 6-22

After backup finished, please click [OK] button shown in Picture 6-22.
Note:
File will be saved as *.264 format.
You could playback the record files via DVR Client player. When installing Dvrclient, system will auto install the player.
Please make sure the back-up device is connected well before backup.

6.3.12   File Backup File Based On Time

You can also allow back-up record files based on time. Please follow the steps below to back up these files
(Details operations please refer to section):

1.   Input start time and end time on the time edit box;

2.   Click [Search] button;

3.   Tick-select all the files you desire to backup;

4.   Click the [Backup] on the bottom.

6.3.13   Media Player Backup

1.   Copy one backup file to your PC.

2.   Open Playback player and click "+" icon or button to find/select the backup file, and then click [open] button.

3.   Highlight the file you have selected and click [Play] button.

 Play button: click the icon to playback the backup record;

 Pause button: click the icon to pause the backup record;

 Stop button: click the icon to stop the backup record;

 Next: Click the icon to play next record;

 Prev.: Click the icon to play previous record

Slow button: click the icon to play the backup record at 1/2, 1/4, 1/8 and 1/16 speed.

FF button: click the icon to fast forward the backup record at x2, x4, x8 and/or x16 speed.

Open: click the icon to open one record file.

Click the icon to enter into full screen mode.

Click the icon to never place one target to top.

Click the icon to place one target to top.

Click the icon to place the record playing to the top.

Snapshot button: click the icon to capture the live image and save the captured one to directory:\\video client\ capture.

Volume Adjust: click the icon to adjust the volume.

Add folder or file to player.

Delete one file in the list

Delete all the files in the list

Unfold or fold the list files

Advance Configuration: click the icon to set one capture path and language shown as Picture 6-23
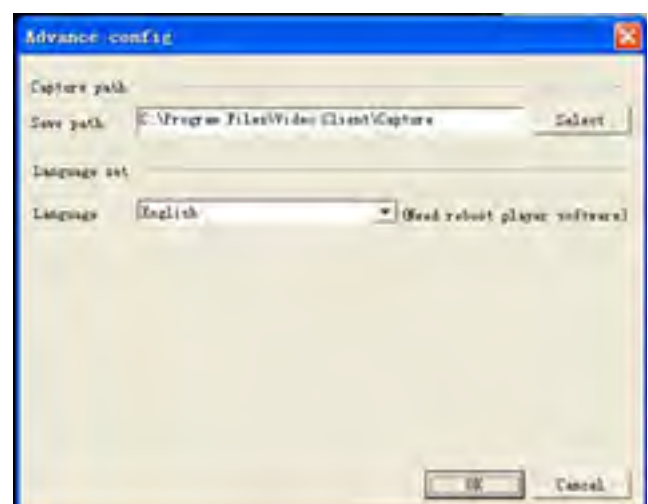
Picture 6-23

6.3.14   Log Search

Go to [Main menu-Search-Log] option to enter into the Log search interface shown in Picture 6-25.

Picture 6-25

Here you can preview the log information you have searched. Click [Backup] to export all the log information which is listed below in picture 6-26 (For other button functions please refer to previous section Event Search)

Picture 6-26

6.3.15   Network: Network Set

Click [Main menu-Network-Network] to enter into the below interface shown as Picture 6-27.

Picture 6-27

After selecting network mode - such as DHCP, PPPOE or static allocation- and setting up web ports you can visit DVR remotely through a network or internet.

UPnP (Universal Plug and Play) function: If router supports UPnP function and you set <UPnP> to "On", the system will automatically forward port to router.

DNS: DNS server is generally provided by local ISP. Enter the IP address of your DNS here.

Picture 6-28

When selecting DHCP from the Type, A router will automatically allocate IP address for your DVR. After restarting each time, the IP address captured by your DVR may be different. So, port forwarding is required when you visit a remote DVR.

1.   Select DHCP and click [Save] button;

2.   Exit and restart DVR;

3.   Input media port and web port

4   Set IP address captured by DVR and web port to a router

5   Visit a remote DVR http: // public net IP: web port (such as: 8080) http: //intranet IP: web port (such as: 8080 - only use for Intranet)

6   Input the IP address of your domain name server

Please Note:

1.   All the parameters you set are available only when you click [Apply] and after the system is restarted.

2.   Users need to change MAC addresses when there are multiple DVRs at the same local area network. For details shown in Picture 6-28, please refer to section System Information.

Picture 6-29

When selecting Static from the Type, user can directly input IP address, Subnet Mask, Gateway and DNS

1.   Set your net type to Static;

2.   Set media port number (such as 9000), and the port needs to be forwarded to a router.

3.   Input web port number (such as 8080), and the port needs to be forwarded to a router;

4.   Input a specified IP address to [IP address] column;

5.   The Subnet Mask, gateway and DNS server should be consistent with your router's configurations.

6.   Input DNS address. Please check router first. The setting should be consistent with the router's

7.   Click [Apply] button

8.   Now you could remotely visit the DVR via IP http: // public net IP: web port (such as: 8080) http: //intranet IP: web port (such as: 8080 - only use for Intranet) Shown in Picture 6-30
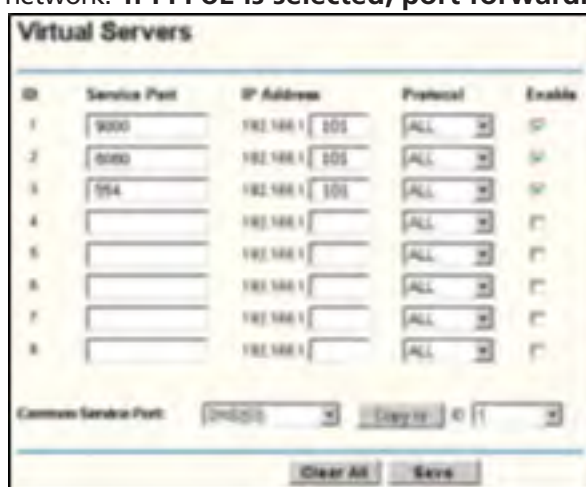
When selecting PPPoE form the Type, user can input user name and password provided by ISP and set Media and Web port. And now you can visit your remote DVR by using the IP address captured after registering a domain name and web port and connect to your DVR via public network.

Picture 6-30

6.3.16   Router's Port Forwarding

Port forwarding is required when you want to access the DVR connected to the router from outside of the router's network. **If PPPoE is selected, port forwarding is not required.**

Picture 6-31

1.   Input router's IP address from IE-based browser to open the Router configuration interface shown as Picture 6-31;
2.   Click [Transmittal rule] option to take you to the port the-forwarding instructions for your router;
3.   The DVR IP address for the intranet should be <192.168.1.101>, you should forward server port and web port to this IP address respectively.
4.   Now user can visit the DVR remotely.

Please Note: The router's port forwarding interface may be different, however, when entering into virtual server, users will always need forward port (range: 1025~65535) of router to IP address of DVR allocated or automatically captured, and select [All] or [Both] in corresponding protocol column and save the above setting.
The above steps may differ from the router device depending on the manufacturer.

6.3.17   Sub Stream

Go to [Main menu-Network-Sub Stream] to enter into the interface shown as Picture 6-32

Picture 6-32

Video: allows you to open or close the sub stream output. If you select "Enable" the system will select sub-stream preview.

Frame rate: allows you to set net transmittal frame rate. Users can select the relative value by the drop down menu.

Bit rate: allows you to set net transmittal bit rate. Users can select the relative value by the drop down menu.

Audio: When tick-selecting the option, system will record video and audio simultaneously.

6.3.18   Email Set

Click [Main Menu-Network-Email] option to enter into the email set interface shown as Picture 6-33

Picture 6-34

SSL: is a security link transport protocol. You can encrypt your communication info (including your email) using SSL to prevent hackers from monitoring your email or communication info and even your password.

Please set SSL to "On" via Gmail.com server, and set to "Off" via other mail server.

SMTP Port: indicate one kind of mail transmittal port opened by Simple Message Transfer Protocol (SMTP). The port number for most mails is 25 except Gmail server (Port No.: 465).

SMTP server: indicates server address you used.

Sender address: indicates sender's email address. The email address should be consistent with the server you use. That is to say, when you use email address – aaa@gmail.com, the according server should be smtp.gmail.com.
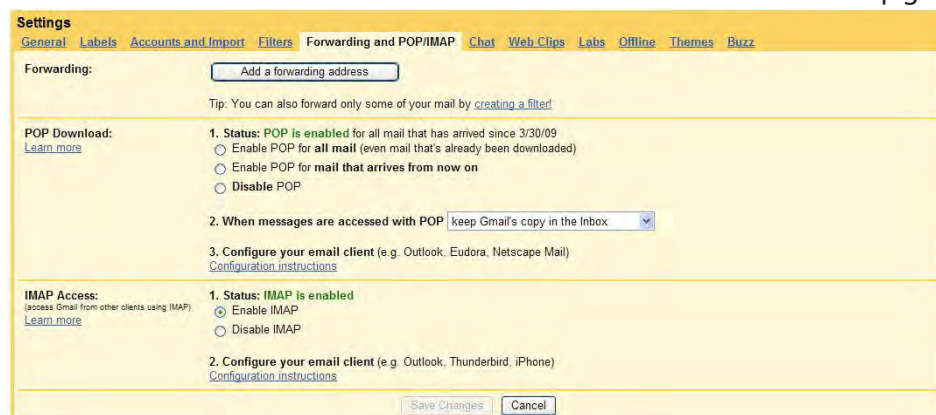
Picture 6-35

6.3.19   Mobile Set

The DVR is currently compatible with mobile phones Andriod, Windows Mobile or Symbian operating systems and Iphone and Blackberry on 3G networks.

Picture 6-36

Click [Main menu-Network-Mobile] to enter into the [Mobile] interface shown as Picture 6-36.

User Name: indicate user name of DVR,

Password: indicate user password of DVR, and also support numbers and characters and 1~15 bits length

Mobile port: Mobile monitoring port. Setting range is between 1024 and 65535.

Please note that the mobile port can not duplicate the port you have set to the networks to.

6.3.20 DDNS Set

DDNS (Dynamic DNS) is a service that registers a domain name and the floating IP address with the DDNS server so that the domain name can be routed to the IP address; even if the IP address is changed in a dynamic IP system.
Users can visit a remote DVR by using DDNS on above three types (Static, DHCP and PPPoE)

Picture 6-37

You can apply for a DDNS account for free at the web www.dyndns.org.
You can register on DVR2009.3322.org or dyndns.org website and get a domain name, user name, and password.

Server: select DDNS provider

Host name: input the host domain name you have registered at dynamic domain name system, such as: DVR2009.3322.org;

User Name: Input the user name registered before applying for a domain name;

Password: Input a password you set when registering a user name.
Click [Apply] button and restart the DVR; and then enter the domain name (such as: http://superdvr.3322.org:8080) to visit your remote DVR.

6.3.21 Alarm: Motion

Click [Main menu-Alarm-Motion] to enter into the menu shown in Picture 6-38

Picture 6-38

Channel: allows you to enable/disable the motion function for any channel.

Area: Click the [Setup] button to enter into area setup interface shown as Picture 6-39. (On following page)

Sensitivity: allows you to set the sensitivity level of motion detection from high to low with 8 being the most sensitive option.

Alarm out: allow you connect external alarm sensor.

Latch time: You can set how long the buzzer will sound when object move is detected (10s, 20, 40s, 60s);

Show Message: You can set a show message on the screen when the motion alarm is detected.

Buzzer time: you can set how long the buzzer will sound when motion is detected (10s, 20, 40s, 60s);

Send Email: Allows you to set the alarm images to be sent to a specified email.

Full screen Alarm: The function is defaulted to "On". When the motion is detected, the corresponding channel will be switched to the full screen mode.

Record Channel: the record channel will be activated when the motion is detected.

Post Recording: you can set how long the alarm record will last when alarm ends (30s, 1minute 2minute 5minute).

Copy: allows you to copy current channel parameters to any other channel or all channels.
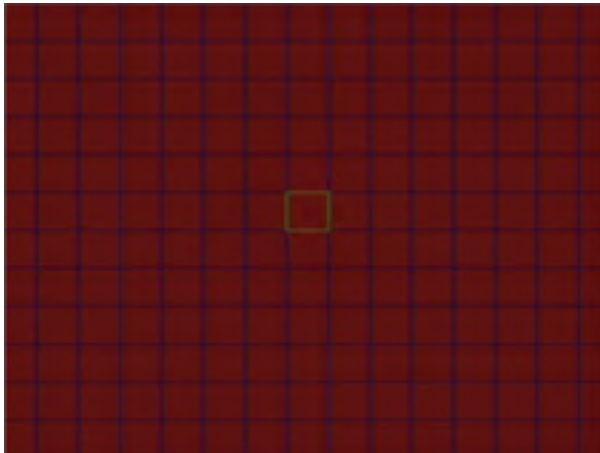
The channel will be divided into a 15X12grid (PAL mode) or a 15X10grids (NTSC mode). When any object moves into the motion detection area (displayed in red) the motion detection will be triggered. (In the semi-transparent area the motion detection is not activated.)

Picture 6-39

6.8.2   Alarm Set

Click [Main Menu-Alarm-Alarm In] to enter into the menu shown in Picture 6-40. Now you can adjust alarm setting based on different variables.

Picture 6-40

Alarm Type
No.: Allows you to select a specified channel
I/O Status: allows you select the three options – NO (Normal Open), NC (Normal Close) and OFF. Set to "Normal Open", I/O status Alarm will be activated while sensor is ON; set to "Normal Close", I/O status alarm will be activated while sensor is OFF; set to "OFF", I/O status alarm will not be triggered.
Alarm out: allows you to connect the external alarm sensor.
Latch time: you can set how long when the buzzer will sound when external sensor alarm is detected (10s, 20, 40s, 60s);
Show Message: You can set show message on the screen when a sensor alarm is detected.

Buzzer time: you can set how long the buzzer will sound when sensor alarm is detected (Off, 10s, 20, 40s, 60s);
Send Email: Allows you to set the alarm images to be sent to a specified email.
Full screen Alarm: The function is defaulted to "On". When motion detection or an external alarm is triggered, the corresponding channel will be switched to the full screen mode.
Record Channel: allows you to select the channels you want to record.
Post Recording: you can set how long the alarm record will last when the alarm ends (30s, 1minute, 2minutes, 5minutes);
Copy: allows you to copy all the settings from one channel to other.

Alarm Type	Function
Video Loss	Sends an alarm when the DVR can't receive video signals (such as, camera damage, a cable is broken or damaged or there is a power supply malfunction).
Motion Detection	When an object moves into the motion detection area, an alarm will be triggered. You can adjust the sensitivity level to suit the needs of your application environment.
I/O Status	System can convert the alarm signal triggered by an external sensor into signal identified by system.
HDD loss	When a Hard Drive is not detected (HDD damage, power supply malfunction), or HDD auto-overwrite is off, or there is not enough system memory, an alarm will be triggered.

6.3.23   Device: Hard Disk Drive Set

Click [Main menu-Device-HDD] to enter into the menu shown as Picture 6-42.

Picture 6-42

This figure is only for D9016 / CIF model references

When the DVR is connected to a HDD, the system will automatically detect if the HDD is connected or not;
If the cable connected to the HDD is loose or the HDD is abnormal, the HDD status will be shown as "No Disk".
If the HDD needd to be formatted,the status will be shown as "no format", otherwise, the HDD status will be
shown as "Normal"

Picture 6-43

This figure is only for D9016 / CIF model reference

No.: Indicates the HDD No pre-seted by system.

Status: This will be available only when the HDD has been formatted.

Total Space – Total size of the hard drive installed. (8 CH DVR = 500 GB
                                                         16 CH DVR = 500GB)

Free Space – Total amount of free space available on the hard drive.

Useable Rec. Time – Free space available given in hours.

Auto-overwrite – When set to ENABLE the DVR will record over the oldest files on the hard drive. The DVR will always be able to record events as they happen, however, it does means that you'll need to get important events off the HDD before they're overwritten; if overwrite is set to DISABLE the DVR will stop recording once the DVR is full. Whilst you will not lose any old footage, you do run the risk of missing new events as they happen.
Be sure you want to do this before selecting it.

HDD Format – Formatting the HDD will erase all data (i.e. footage) which is stored on it, and re-create the FAT (file allocation table).

Note: It is an important first step when configuring your DVR to make sure that the hard drive (HDD) options are correctly set. We strongly suggest that you format the HDD before you start the first recording.

6.3.24   PTZ Set

Click [Main Menu-Device-PTZ] to enter into the below window shown as Picture 6-44

Picture 6-44   This figure is only for D9016 / CIF model reference

You can select the channel you desire to control and set PTZ protocol (Pelco-D or Pelco-P), Baud Rate (1200, 2400, 4800, 9600), Data bit (8, 7, 6, 5), Stop bit (1, 2), Parity Check (None, Odd, Even, Mark, Space), Address Code and Cruise status respectively. Please note the PTZ device can be activated only when a channel in connection with the PTZ camera is selected.

6.3.25   Serial Set

Enter into the [Main menu-Device-Serial] Menu shown in Picture 6-45

To operate the DVR via a keyboard, it is required to set the communication protocol.
> Baud rate: set baud rate of serial communication.
> Data bit: set data bit of serial communication.
> Stop bit: set stop bit.
> Parity Check: set parity check to <None> or other.

Picture 6-45

6.3.26   System: General

Click [Main Menu-System-General] to enter into the menu shown in Picture 6-46

You will be allowed to modify system date, time, date/time format, language, video format and auto logout.

Picture 6-46

6.3.27   DST Set

Click the [DST Setup] button to enter into the menu shown in Picture 6-47.

Here you can set the DST status and mode.

Picture 6-47

6.3.28   Network Time Protocol (NTP) Service

Click [Main menu-System-General] to enter into the menu shown as Picture 6-48

Picture 6-48

NTP Service: Allows you to enable/disable the NTP function.

Server Address: currently supports pool.ntp.org.

Time Zone: System supports thirty Time Zones.

Update now: Click the [Update Now] button to change the above NTP set.

Please Note: The above change will be available only when the system is connected to the internet; and When the NTP function is set to "Enable". The system will calibrate the time at every 00:07:50 and every start-up.

6.3.29   Users

Click [Main Menu-System-users] option and you enter into the menu shown in Picture 6-49

Picture 6-49

The model supports up to seven users with one Admin account and six normal users.
Click [Edit] button to enter into the [User Edit] menu shown in Picture 6-50 (On the following page)
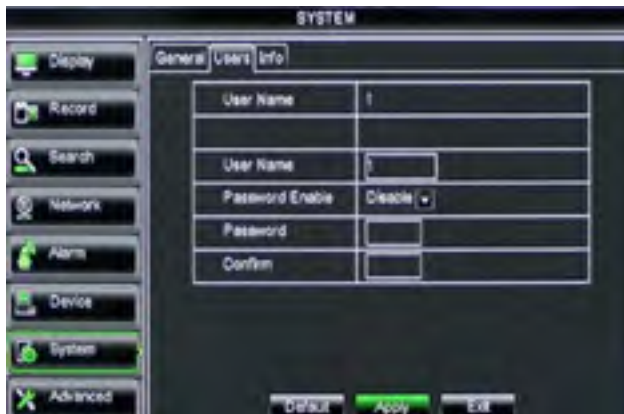
Picture 6-50

The user names can consist of eight characters, passwords can consist of between 0~9 and its fixed-length is 6 bit.
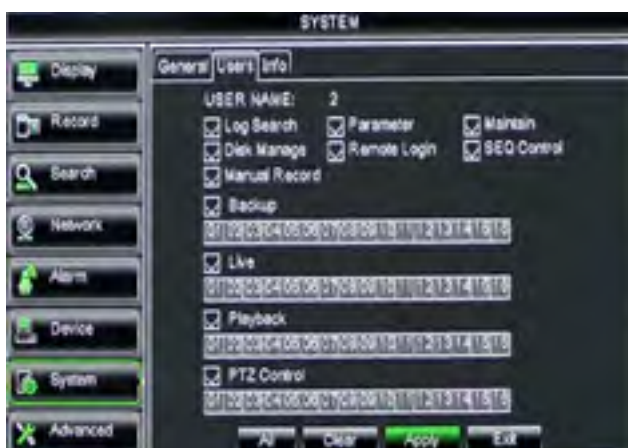
Picture 6-51

[Admin] is authorized to set the normal user's authority levels.

Log Search: allows you tocheck the entire system log.

Parameter: allows you to set all the parameters.

Maintain: allows you to update version, recover ex-factory value, device reboot and shut down.

Disk Manage: allows you to manage and control the HDDs.

Remote Login: allows you to remotely login to the DVR.

Rotate Control: allows you to sequence live screens for all the channels.

Manual record: allows you to manually start/stop record.

Backup: Tick-select the option, the user is allowed to backup the recordings of all the channels.

Live: Tick-select the option and the user is allowed to view all the live images for all the channels.

Playback: Tick-select the option and the user is allowed to playback the recording you selected.

PTZ control: Tick-select the option and the user is allowed to perform the PTZ operation for the selected channel.

6.3.30   Information

Click [Main Menu-System-Info] and then enter into the menu shown in Picture 6-52

Her users can check the current Device name, Device ID, Device type, Device S/N, MAC address, IE version, Software version, Panel version etc.

Picture 6-52

6.3.311   Advanced: Maintained

Click [Main menu-Advanced-Maintain] to enter into the maintain interface shown as Picture 6-53

Picture 6-53

Auto Reboot: you can set the system to auto reboot regularly (daily/weekly/monthly) as per user's needs.

Load Default: If [Load Default] is selected, you can initialize the system to the factory defaults.

Reboot: Click [Reboot] button to manually restart DVR system.

Shutdown: Click the [Shutdown] button to shutdown the device.

System Upgrade:
1.   You can insert a USB memory stick into the USB port for   updating;
2.   Do not take out the USB memory stick or break the connection during the update.
3.   When the update is done, system will be automatically restarted.
4.   Please manually recover factory default setting after system rebooting.

6.11.2   Event

Click [Main menu-Advanced-Events] to enter into the <Events> menu shown in Picture 6-54

Picture 6-54

Event Type: support the three abnormal types: Disk No Space, Disk Error and Video Loss.

Enable: allows you to activate the abnormal alarm.

Alarm out: select [Enable] or [Disable]

Latch time: you can set how long the buzzer will sound when the external sensor alarm is detected (10s, 20, 40s, 60s);

Show Message: You can set to show a message on the screen when sensor alarm is detected.

Buzzer time: you can set how long the buzzer will sound when an abnormal alarm is triggered (Off, 10s, 20, 40s, 60s);

Send Email: Allows you to send the alarm images to a specified email.

6.4   Menu Lock

Picture 6-55

You can click [ ] icon to lock system interface when leaving the DVR. If you want to login to the DVR again, you would input your device code, user ID and password to unlock the menu shown inPicture 6-55

Please Note: The administrator has full authority over the Main Menu operations and can limit a common user's operation.

6.5   Screen Mode

The model displays 4/8 live images in the sequence of single, 4-split and 9-split modes.
If you enter into 4-split mode, the live images will be displayed in turn CH1~4, CH5~8…and CH13~16.
If you enter into 9-split mode, the live images will be displayed in turn CH1~9 - CH10~16.

6.6   PTZ Control

Picture 6-56

We introduced setting PTZ parameters previously in section 6.3.24 – PTZ Set. Here we will discuss how to operate the PTZ controls.

Click the [ ] icon to enter into [PTZ control] menu shown as Picture 6-56. Now users can control the cameras with Pan, Tilt and Zoom capabilities.
Click [Zoom-/+] button to zoom in / out the image; Click [Focus -/+] button to focus the image; Click [Iris -/+] button adjust iris to open or close.

Cruise Set
Open auto cruise function on the PTZ setting menu if you want to setup cruise function (system default: off), and set up cruise channel, cur point and total quantity and stop time etc
  How to set pre-set point

Total: set up pre-set point quantity

Cur Point: indicates starting point cruised. System default point is 01. The model support up to 255 pre-set points.

Stop time: sets the stop time at each point

GO TO: allows you to go to a specific preset point.

Set: allows you to set a set of specific preset points of a PTZ camera.
1.   Select a camera you desire to set a preset point;
2.   Adjust the camera in a desired direction;
3.   Click [Set] to set the point as preset point;
4.   Click [Save] to save the preset point;
5.   Follow the above step to add one more preset point.

Save: save all the preset points

Clean: allows you to delete one selected preset point.

Note: Up to 254 pre-sets per one camera can be stored. However, the actual preset quantity differs depending on the PTZ performance.

6.7   PIP Mode

You can display a Picture-in-Picture in live mode. PIP has two display modes, including 1X1 display mode and 1X2 display mode, as shown below.
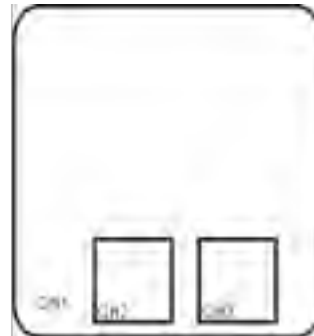
<table>
<tr><td>1x1 display mode</td><td>1x2 display mode</td></tr>
</table>

6.8   Record Search

You can enter into the [Record Search] menu from Pop-up menu conveniently and quickly and search/playback the record histories. Refer to Record search as detailed in Section 6.3.7

6.9   Mute

Click the [ ] icon, or press the <Mute> button on the front panel of the DVR and Remote controller to mute of the sound.

6.10   Manual Record

You can start manual record function, or you can click the [ ] button on the Front panel or Remote controller to activate manual record.

6.11   Stop Record

To stop recording quickly, please click the icon [ ] or [Stop] button on the front panel of the DVR or remote the controller.

6.12   Start Sequence

In the single mode, when entering into [Start sequence] menu, auto-sequence will be conducted at the set interval.

6.13   Start Cruise

If multiple presets are specified, the PTZ camera will automatically move to the entire preset one at a time whilst the user activates [Start Cruise] options. If you want to stop cruise, please click [ ] icon on the [Tool] column.

CHAPTER 6: WEB APPLICATION MANAGER

7.1 Plug-in Download and Installation

Open your web browser and input the IP address and web port of DVR, for example:http://172.18.6.202:8080/ . If your computer is connected to internet, it will download and install "ActiveX" Plug-in automatically. If your computer system is Vista, you may need to setup the user authority. Shown below select: Start - setup - control panel Tick "√" use UAC (User Account Control) to help protect your computer and confirm OK.
Vista system:
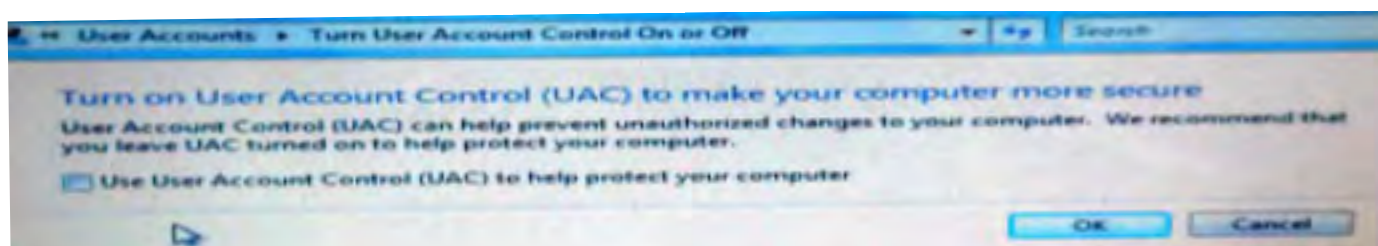
Vista

Win-7 system:
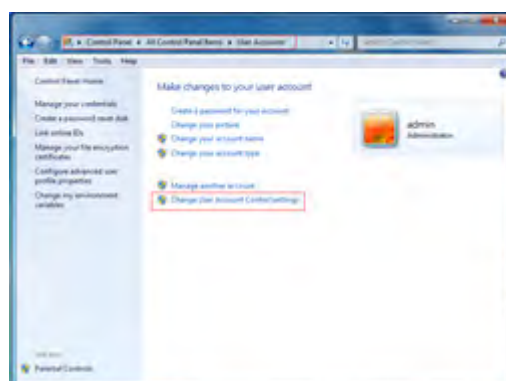
WIN7-1
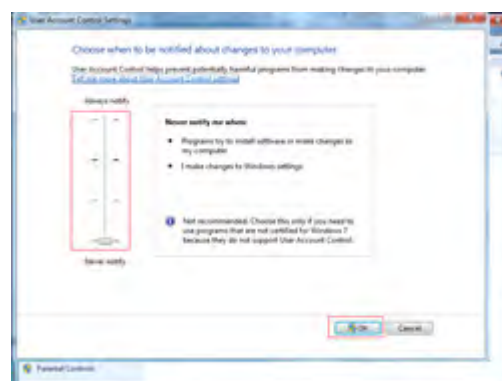
WIN7-2

Reminder: If the plug-in program is not downloaded successfully, please check if your browser's safety level or firewall setting is too advanced. Please open IE - Select tools - Internet options - Internet Custom level - Enable the options (shown in Picture 7-1)

Picture 7-1

If running the web application for the first time, you need about one minute to finish download and install plug-in, please wait patiently.

Please Note: If you want to use the undated webcam at one computer which you already login before, please delete the old IE webcam and click [Start - Run] to input the command characters: "regsvr32/u HiDvrOcx.ocx", then login again.

7.2   Web Application Manager Log-in

After plug-in installation, please input your user name, password and client port number; and select <Main stream> or <sub stream>, and then tick-select <Open All Channels Preview>;

Picture 7-2

Now click [Log-in] button; you are now allowed to access at the remote DVR and monitor live video images using Web browser anytime from virtually anywhere.

Please Note: If the defaulted password is empty, the system allows the Administrator to set new passwords as per the instructions given in section configuration - [System set - User Configuration] menu.

7.3   Live Interface

After successfully logging-in to the web manager; you will enter into the Live interface shown in Picture 7-3
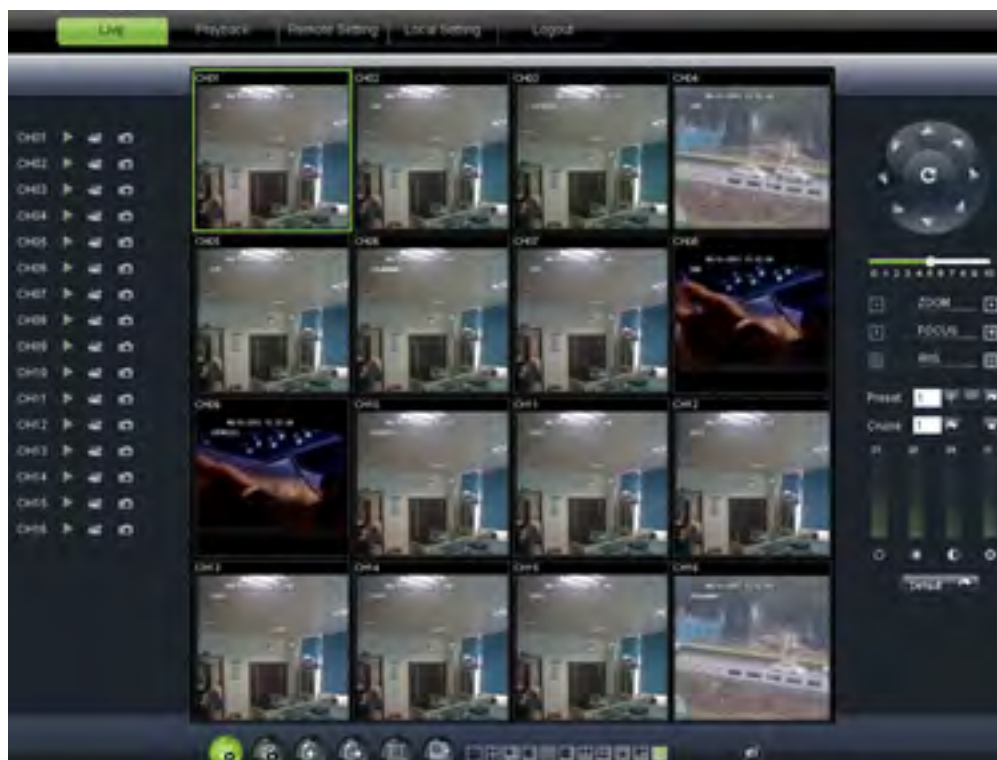
Picture 7-3

7.3.1   Menu Bar

The Menu bar includes [Live], [Replay], [Configuration], [Path Configuration] and [Logout] options

7.3.2   Live Display

After running the Web Application Manager on your local PC, the system will be defaulted to enter into the <Live> interface shown in Picture 7-3 on the previous page. You can click the [Play] button to Open/close live images and enter into on-spot record and Capture, quad, 9-split or 16-split mode by operating the control bar on the bottom of screen.

Volume switch

Record icon: recordings will be saved to a specified location after starting record.

Snapshot function: allows you to capture live images and save to a specified location. The image should be saved as *.BMP file format.

By clicking the icon   this will close/open the current channel's live mode
Or you can click on any <Live> window to get the menu as shown in Picture 7-4
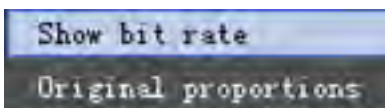
Show bit rate: show current bit rate;
Original Proportions: show original proportions.

Picture 7-4
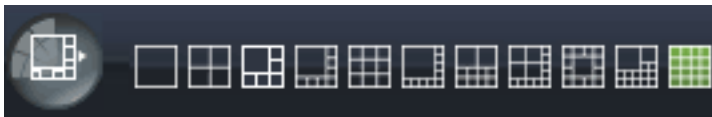
:CH Display mode

:Allows you to open all the <live> channels

:Allows you to close all the <live> channels

:Displays previous channel

:Displays next channel
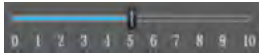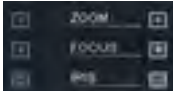
:Click the icon to enlarge current window to full screen; by right-clicking you can now select <Exit full screen>

7.3.3   PTZ Control

1:          PTZ moving Direction control: allows you to control the PTZ camera direction. And the middle button is called [Auto-cruise] button.

2. PTZ speed control bar

3: Iris, Focus and Zoom control

4: Preset setting/clear; Start cruise /stop cruise

Picture 7-5

7.3.4   Video Control

Adjust video Hue;
Adjust video brightness;
Adjust video Contrast;
Adjust video saturation;

Restore factory default settings.

Picture 7-6

7.3.5   Playback

Click [Playback   ] icon to enter into <playback> menu shown Picture 7-7 below.

The Web Application Manager supports up to 4 channels playback simultaneously.
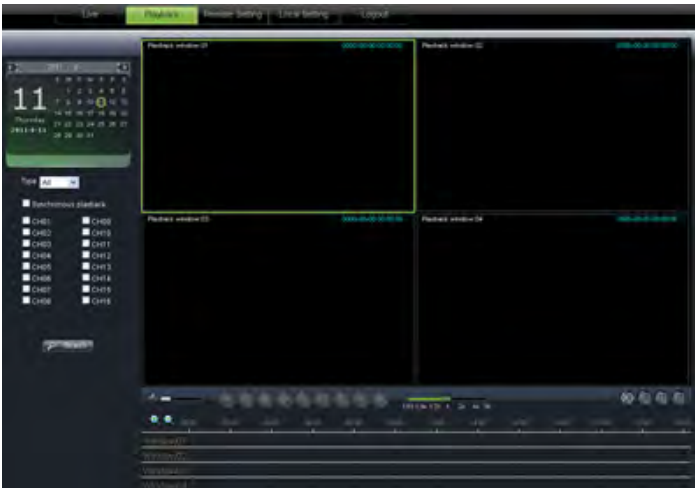
Picture 7-7

7.3.6   Record Search

Firstly, select one day you want to check and tick-select <synchronise Playback> and the channels you desire to playback shown as Picture 7-8
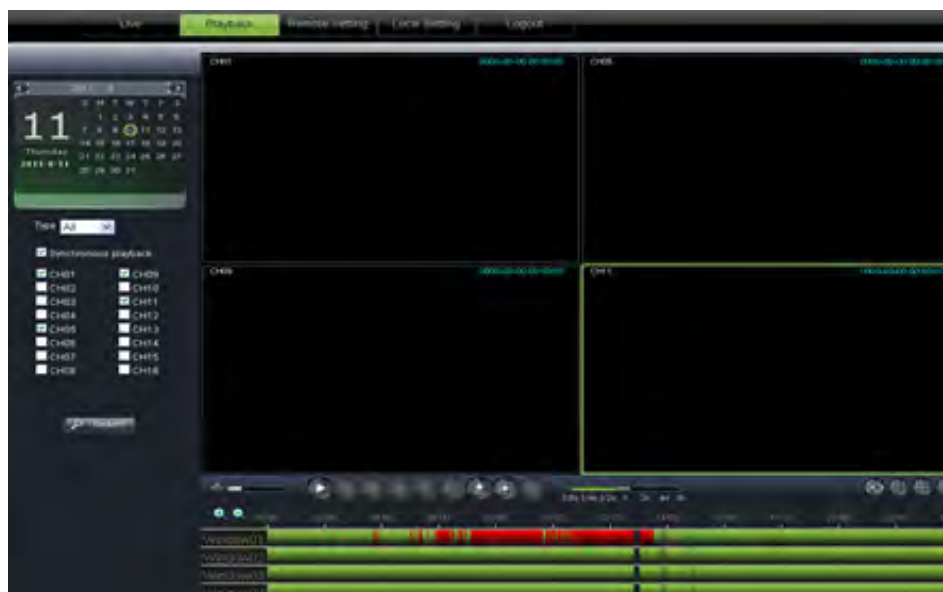
Picture 7-8

Secondly, select record type (Normal record, Alarm record and All) and then click the search button shown as Picture 7-9. On the time axis, at the bottom of the screen shows that red is for alarm record, yellow stands for normal record and (original part green) stands for no record during this period

Picture 7-9

If you tick-select the synchronised option, that means the selected channel will playback simultaneously; alternatively, you can separately control the channels playback.

Thirdly, Click [ ] icon to start the record playback. When mouse cursor hovers on the time axis, the current time will appear in the screen.

Click [/] icon to zoom in/out the time bar display ratio shown as Picture 7-9 above.

7.3.7   Playback Control

The playback control bar is shown in picture 7-10 below:

Picture 7-10

Playback control descriptions:

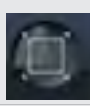| Key	Description	Key	Description
	Play		Open/close audio
	Pause		Volume adjust
	Stop		Playback control bar (x1/2,1/4,1/8, normal, x2, x4, x8)
	By frame		Stop all play backs
	Clip		Single channel mode
	Capture		Quad mode
	Download		Full screen
	Open all the channels		
	Stop all the channels		

Record file clip

After opening playback, click the [🔍] icon to clip the selected file; and click again to stop the clip function. Record clip file will be saved as *.264 format.

Snapshot function

Move the mouse cursor to the channel you want to capture, and click [📷] icon to capture the live images remotely. After capturing the images successfully, you are allowed to save it to a specified location, as shown in Picture 7-11. The captured file will be saved as *.BMP file format

Picture 7-11

Record file download

Click the [⬇] icon to enter into the menu shown in Picture 7-12.
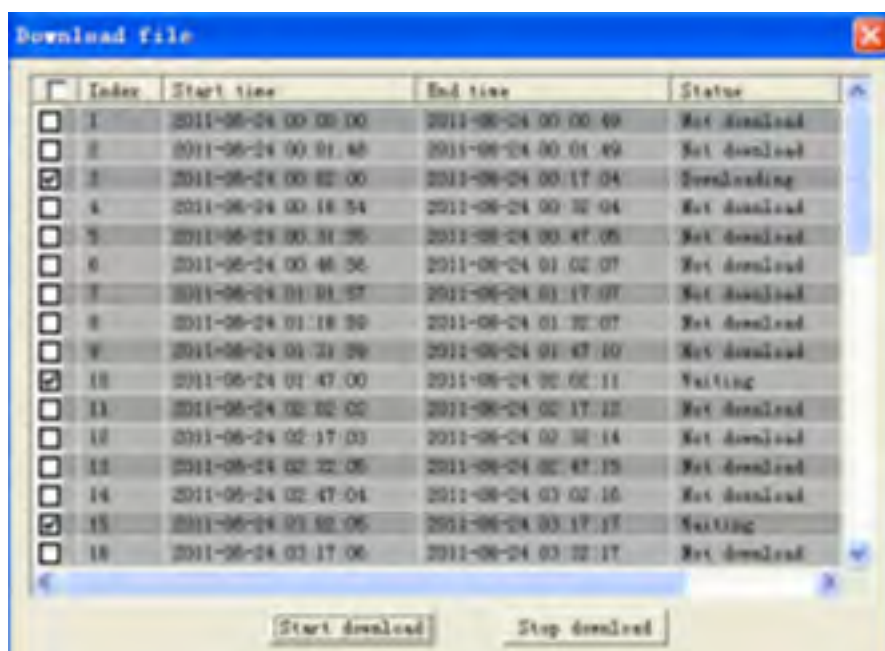
Picture 7-12

Tick-select the record files you want to download and click [Start download]
The System will download the record files in turn and save to local PC.

7.3.8   Configuration

Click the [Configuration] option to enter into the [Config] menu shown in Picture 7-13 below. Here you set Display configuration, Record, Network, Alarm, Device, System parameters and Advanced according to your actual request.

7.3.9   Display Configuration

From the [Display] option you can navigate to Live and Privacy zone settings.

1.   **Live:** Allows you to modify the channel name, Position, Show time and Record time. If the show time is set to <disable>, the current system time will not appear on the screen on Live mode; and if the record time is set to <off>, the system time can't be found in the record file.

Picture 7-13

2.   Privacy zone: Each channel could be set up to four privacy zones as shown in Picture 7-14 below. For details of parameters please refer to section Privacy Zone. If you want to delete a privacy zone, please firstly select one zone, and then click the <Clear> button and click <Save> on the right corner.

Picture 7-14

7.3.10   Record

Click the <Record> option to navigate sub-options: Record parameter, Schedule and Main stream.

1.   **Record Parameters:** Under the [Record parameters] option, you can set channel, record enable, pack time and Pre-record status shown as Picture 7-15

Picture 7-15

2.   **Schedule:** For detailed parameters please refer to DVR local setting.
Green stands for Normal record; Yellow stands for Motion detection; Red stands for I/O triggered record.
See Picture 7-16 below.

Picture 7-16

3.   **Main Stream:** Detailed settings please refer to DVR local setting. Here users can modify the resolution, frame rate, Bit rate and audio of the record channel. See Pictures 7-17 on the next page.

Picture 7-17   This figure is only for D9016 / CIF model reference

7.3.11   Network Parameters

Select <Network> option to navigate to it's sub-options: Network, sub stream, Email, mobile and DDNS configuration.
The model supportd three network type, including Static, DHCP and PPPoE

Static: System default <Static> as its network type. Users can allocate IP and perform Port forwarding for the DVR according to a different router. When set <UPNP> to "On", the user does not need to set port forwarding.

Once you modify the network parameters successfully, the DVR will automatically restart.

Picture 7-18

DHCP: Set the network type to "DHCP" shown in Picture 7-19 on the next page. Relative parameters should be consistent with the DVR local settings.

Picture 7-19

Set network type to "PPPoE" shown in Picture 7-20 below. Its user name and password should be consistent with the DVR local settings.

Picture 7-20

Sub stream (shown in Picture 7-21 on the next page): Relative parameters should be consistent with the DVR local settings.

Picture 7-21

Email setting: Click on [Email setting] to allow you to set the alarm email configuration parameters shown in Picture 7-22 below. Detailed parameters should be consistent with the DVR local setting.

Picture 7-22

Mobile: Its user name, password and mobile port No should be consistent with the DVR local settings shown in Picture 7-23 on the next page.

Picture 7-23

DDNS Setting: After the user applies for a DDNS service shown in Picture 7-24 below, you can enable <DDNS> function under any one network type mode (Static, DHCP and PPPoE). Now you remotely visit the DVR through the domain name (http://domain name: port No). Settings should be consistent withthe DVR local settings.
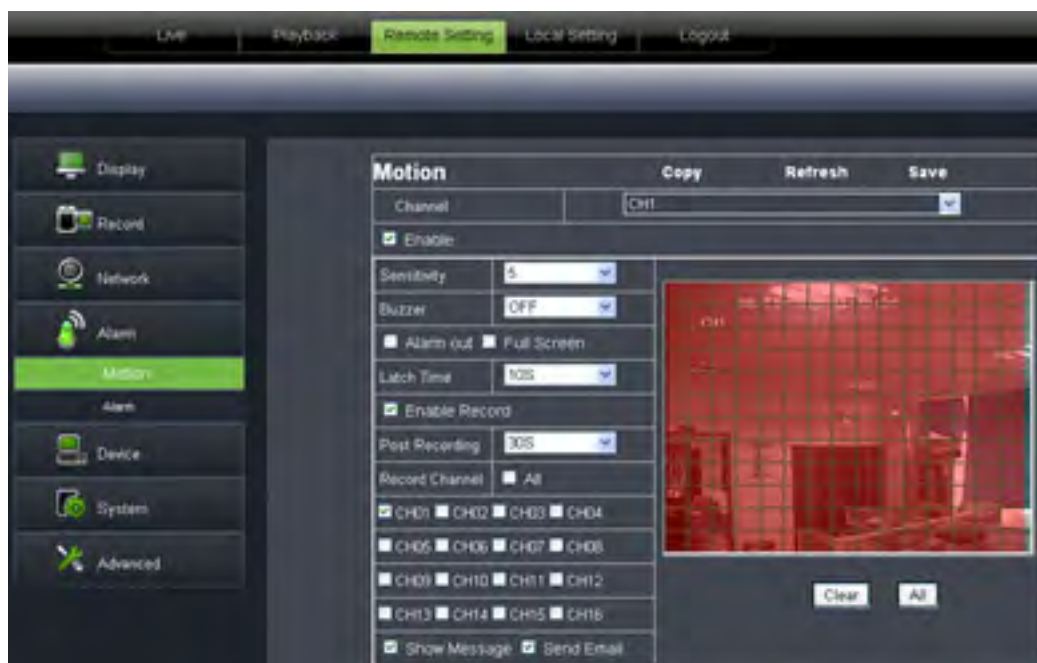

Picture 7-24

7.3.12   Alarm Set

Click <Alarm> option to navigate to its sub-options: Motion, I/O Alarm shown in Picture 7-25 below.

Picture 7-25

Motion Detection: allows you to configure its <Sensitivity>, <Alarm out>, <Alarm record> and <Alarm Capture> etc. Settings should be consistent with the DVR local settings (Shown in Picture 7-26).

Picture 7-26

I/O Alarm: allows you to configure <I/O Status>, <Alarm output>, <I/O Alarm record> and <Alarm email> etc. Settings should be consistent with the DVR local setting (Shown in Picture 7-27 on the next page).

Picture 7-27

7.3.13   Device

Click <Device> to navigate to its sub-options: HDD and PTZ.

HDD: allows you to check out HDD status and overwritten time shown in Picture 7-28 (On the next page). Settings should be consistent with the DVR local setting.

Picture 7-28

PTZ Configuration (shown in Picture 7-29 on the next page) setting should be consistent with the DVR local settings.

Picture 7-29

7.3.13   System

Click <System> option to navigate to its sub-options: General, Users and information.

General: Users could check the DVR's language and video system, and also set the system time, date format, DST and NTP shown in Picture 7-30 below. Settings should be consistent with the DVR local settings.

Picture 7-30

Users: Allows you to configure user name and password shown in Picture 7-31(On the next page). Settings should be consistent with the DVR local settings.

Picture 7-31

Information: Allows you to check the device name, number, type, MAC address, software version, IE version and hardware version shown in Picture 7-32 below.

Picture 7-32

7.3.14   Advanced

Click <Advanced> to navigate to its sub-options: System update, Load default, Events and system maintain etc.
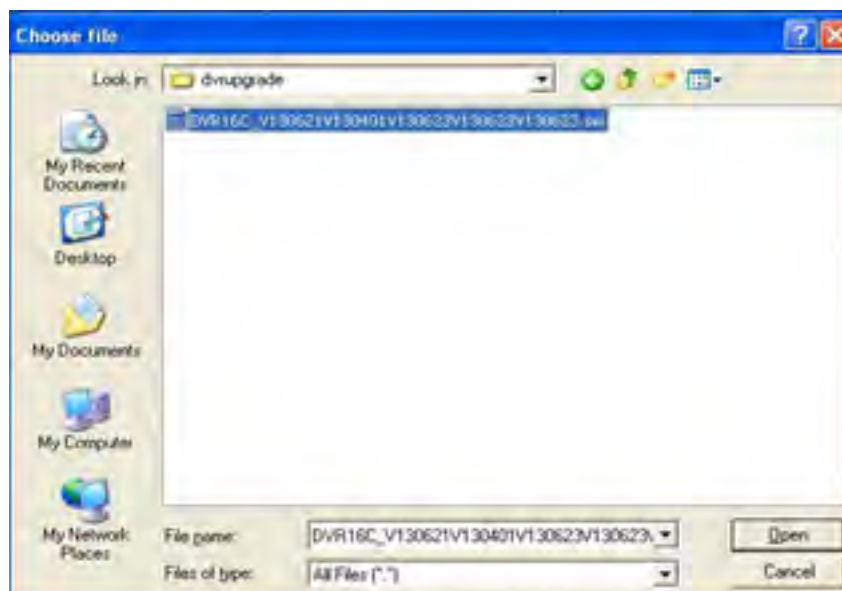
System Update: allows you to upgrade the DVR system remotely shown in Picture 7-33 below.

Picture 7-33

Please follow the below steps to upgrade the system:

a.   Select the upgrade file path shown in Picture 7-34. Please note that the format of upgrade file is *.sw.

Picture 7-34

a.   Click <Start update>, the processing bar will display current upgrade status shown in Picture 7-35 (On the next page).

Picture 7-35

Load Default: allows you to recover the defaulted parameters of the DVR remotely shown in Picture 7-36. Settings should be consistent with the DVR local settings.

Picture 7-36

Events: allows you to configure abnormal type, buzzer output time, alarm email and show message shown in Picture 7-37 (On the next page). Settings should be consistent with the DVR local settings.

Picture 7-37

Maintain: allows you to set the auto system maintain for the DVR remotely shown in Picture 7-38 below. Settings should be consistent with the DVR local setting.

Picture 7-38

7.3.15 Local Setting

Under the <Local setting> option, users can set the record path of record file (Live record and Playback clip file), download path of remote file, Snapshot path, File type (H.264 and AVI) and Internal shown in Picture 7-39 below.

Picture 7-39

7.3.16 Logout

Click the [🔵 Logout] icon to return back the log-in interface.

CHAPTER 7: APPENDIX

8.1   Operation Function Table

Type	Title	Description	Page
Basic Setting	Time setting	Set system date/time, display format and day-light saving time	26
	Language select	Set system language	27
	Channel setting	Set CH title and position; adjust image color parameter value; set CH display to ON / Off and time display/recording time overlaying to On/Off.	9
	Record setting	Set image quality, resolution, volume, record mode an pack time	10
	Record search	Time based search, channel based search and rec. mode based search.	12
	Record Playback	Specified time playback, scheduled playback, file list playback	12
	Playback mode	Play, play frame by frame, multi-speed forward and multi-speed rewind	13
	File backup	USB and removable HDD backup, DVD recorder back-up and network download	13
	HDD Manage	Check HDD status, usage space, setting HDD auto-overwrite	15
	VID/AUD Setting	Adjust VGA resolution, select system and volume control, set interval and channel display	26

Advanced Setting	User password	Set or modify user password	26
	Alarm setting	Set HDD loss, HDD space, video loss, I/O status, alarm management and Email alarm notifications	15
	Motion detection	Set on/off status of MD; select sensitivity and set motion detection area.	25
	PTZ setting	Select CH and set PTZ protocol, baud rate and PTZ address for the CH	19
	Mobile surveillance	Set user name, password and server port.	19
	System maintenance	Set system auto maintenance, maintenance time regularly, system upgrade, ex-factory default value recovery and manual restart system	27
Network Setting	Display mode	PIP display, Zoom in/out, split mode, auto sequence and cruise display	
	Network and Port setting	Select network mode and set net-viewer port, web port, DNS and DDNS parameters.	10
Network Function	Live display	Real time video surveillance remotely	32
	Remote record	Set record mode and status of DVR remotely	32
	Remote playback	Check local record history via network	32
	PTZ control	Remotely control PTZ camera, position, focus, zoom and iris etc.	37
	parameter set of DVR remotely	Set local CH display, record, alarm, PTZ control parameter value via network	32
	Network download	Backup record file via network	32

Auxiliary Function	System info	Check device ID, software version and MAC address	27
		In addition to illustrating picture, Parenthesis generally indicate optional parameter value of previous menu.	
Menu button	Enter	Clicking the button will save current parameter.	
	Default Recovery	Clicking the button will recover current parameters to the system defaults.	
	ESC	Clicking the button will exit the current menu.	
Basic application Guide	1Time setting	Adjust system time	26
		Format HDD	15
	2HDD Manage	Set network type and web port (except PPPoE, which other type needs forward web port router of DVR.	10
		Modify MAC address	27
	3Net setting	Set relative parameter	19
		PTZ setting, Record set and Language select etc	
	4System Info		
	5Mobile Monitoring		
	Other		

8.2 Record Alarm Settings

Please refer the below matrix: "" stands for "only alarm but no record"; "AMR" stands for "alarm record"; "NLR" stand for "normal record"; and "NOR" stand for " no record".

Once the alarm is triggered, alarm icon will occur, and when many alarms are triggered, alarm remarks will occur on the screen.

Record alarm setting		Alarm icon	Record Mode				
					Scheduled recording		
			Record after power on	AMR	NLR	NOR	Manual Record
Alarm mode	MD alarm	M	AMR	AMR	NLR	⊥	NLR
	I/O triggered alarm	T	AMR	AMR	NLR	⊥	NLR
	HDD loss, HDD Full	H	⊥	⊥	⊥	⊥	⊥
	Video Loss	Video Loss	⊥	⊥	⊥	⊥	⊥

In the record mode, [R] icon or [M] icon will appear on the screen. But when [T] icon and [M] icon appears on the screen it means that a motion alarm has been triggered. When the [H] icon appears on the screen, that means HDD alarm has occurred.

8.4   Troubleshooting

1.   Q: What can I do if the system does not detect the HDD?
        A: Check if the power supply system is properly connected and the data cord and power cables are securely connected

2.   Q: We have changed the password but can't remember the new password, how can we access the system?
        A: If you forget system password, please consult with the service personnel.

3.   Q: We are not getting any video signal on the DVR, what is wrong?
        A: Check the camera video cable and connections; or check the monitors video cable and connections; or confirm that the camera has the power and / or check camera lens setting.

4.   Q: Why do some of the channels display just a blank screen even if they receive video sources?
        A: Check if the camera is connected to the system properly; check if the camera is properly supplied with power.

5.   Q: Can the DVR have problems if it gets too hot, how can I prevent this?
        A: The DVR has a fan to help it dissipate heat while it is running. Please place the DVR in a place where there is good air circulation and away from heat sources to increase stability and life span of the DVR.

6.   Q: "Record" Can not work normally, how do I deal with this?
        A: Check if the current screen is in Play mode, pressing [Stop] button to exit the Play mode and then you can enter into the [Record] function.

7.   Q: Why is the Remote Controller not working normally?
        A: Check if the battery needs replacing; or check if the Remote Controller is broken.

8.   Q: Can we record whilst playing-back?
        A: Yes, you can do it. The system records whilst playing-back.

9.   Q: Can we erase some of the recorded files from the DVR.
        A: Considering the safety factor, you can't delete the recorded file directly from the device. When you actually erase all the recorded files, please select HDD format function

10.   Q: Why does the Buzzer keep sounding?
        A: Please check if the motion detection is on and if the system has detected motion, make sure the HDD is being detected and has sufficient space available; check if video output has been lost.

11.   Q: Why can't stop [Stop] function?
        A: Pressing [Stop] button only can stop manual record. If you want to stop Scheduled record, please revise to [No Record] during this period.

## 8.5   Usage Maintenance

1.   Please make sure the DVR is kept away from heat sources.
2.   Clean regularly, keeping the DVR aeration and not stacking on top of other devices will allow suitable heat dissipation.
3.   Please do not plug in RS-232 and RS-485 when power is on to avoid any damage to the port.
4.   Please check the HDD cable and data cable to avoid the cable aging.
5.   Please avoid other electronic device interfere once; video/audio signal of DVR, or static electricity and induced voltage damage to DVR.
6.   Suggest users replace the BNC cable regularly to keep signal input stable.

8.6 System Connection Diagram

8-CH-CIF
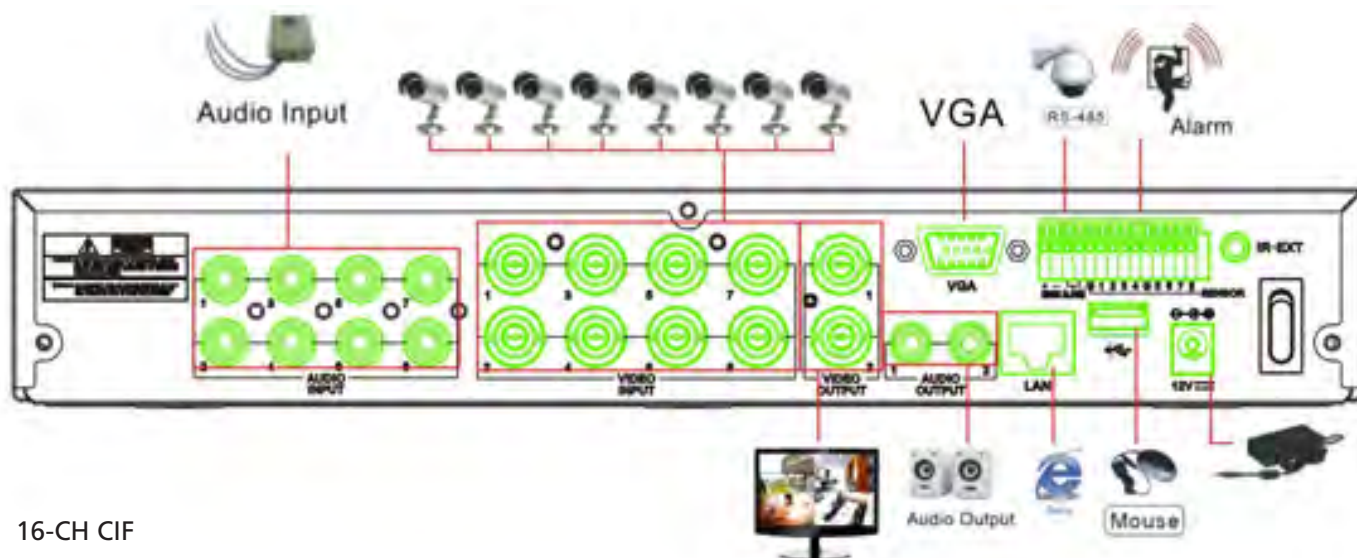
16-CH CIF
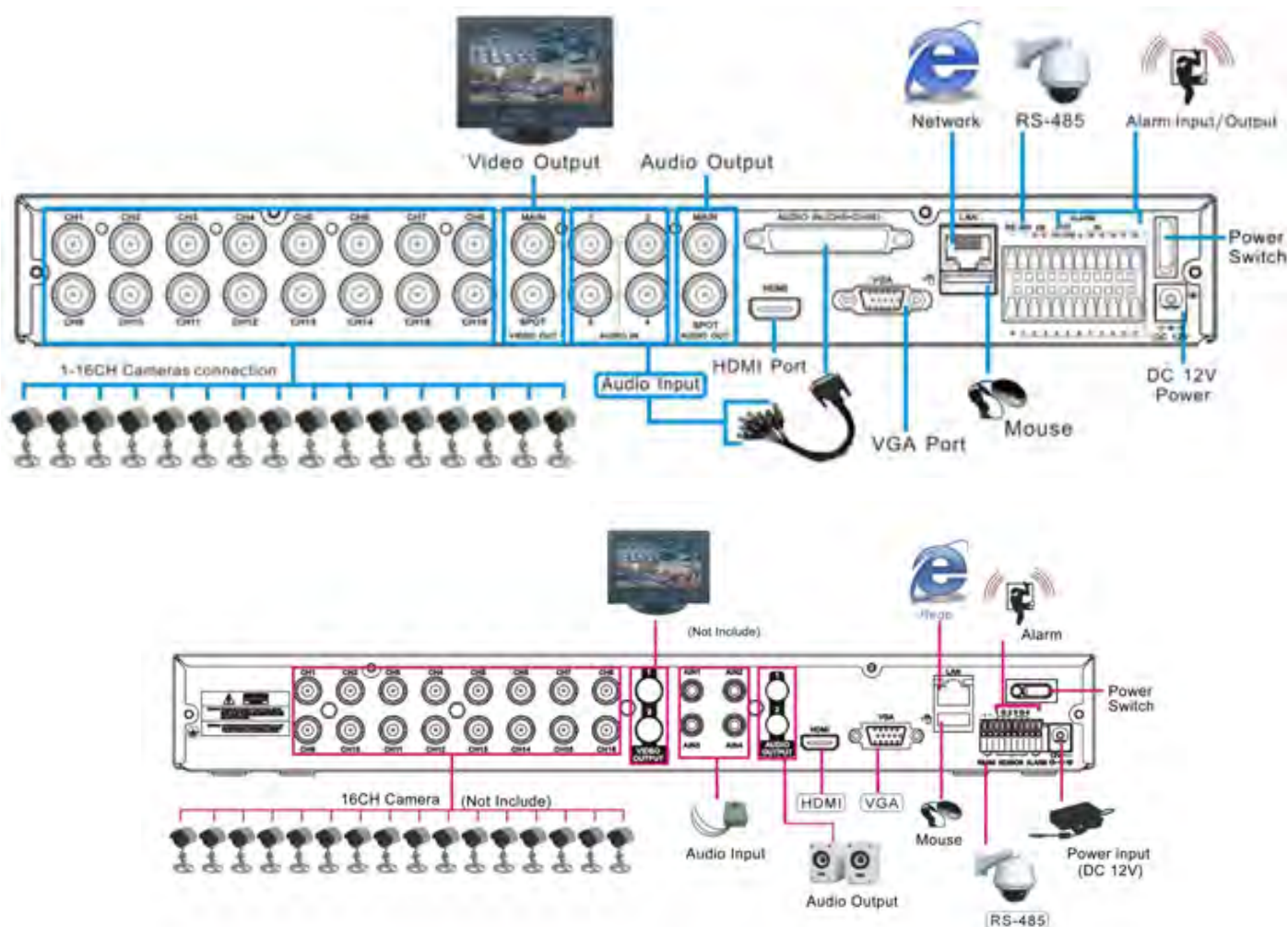
8.7   Accessories

Power Cord   Power Adaptor   USB Mouse   16 CH & 4/8 CH Remote Controller

or

Software CD

DIGITAL VIDEO RECORDER (DVR) USER'S MANUAL